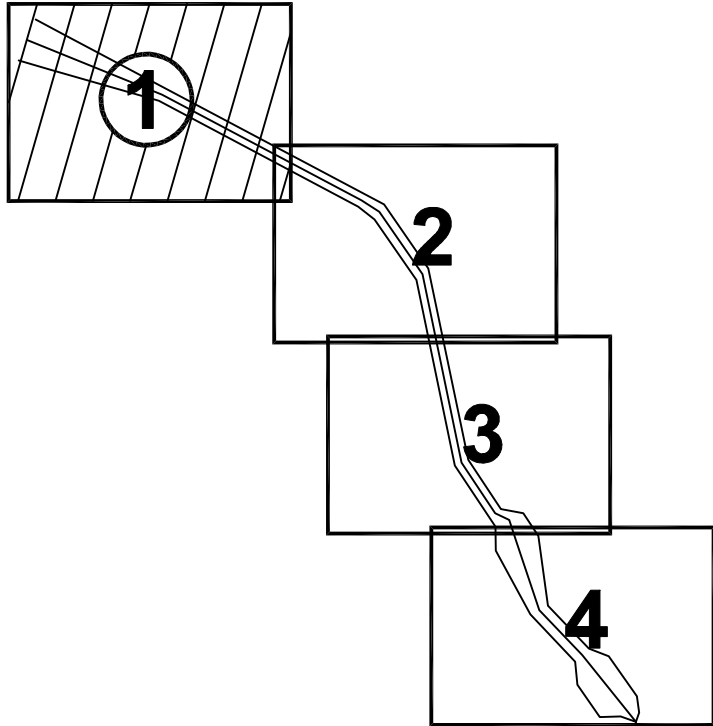


SHEET INDEX



NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. NGVD 1929.

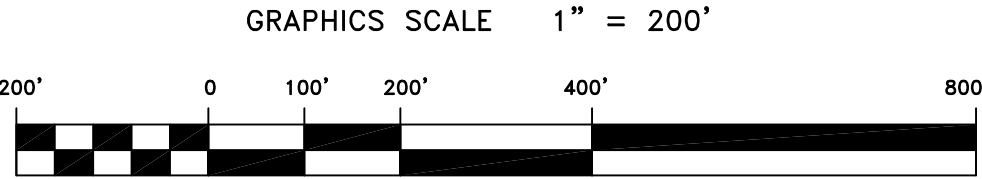
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 30 FEET AT M.L.L.W.

SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT RAZ 6 & RAZ 5 LINES 18+00 TO 100+00 @ BEACON NO. 8  
LINES 101+00 TO 160+00 @ RAZ 6  
LINES 161+ TO 208+48 @ WHARF 4

VERTICAL CONTROL  
BENCHMARK 13 1974 USC&GS DISK ELEV. 12.97 FT. MLLW.  
BENCHMARK S 1076 USC&GS DISK ELEV. 7.01 FT. MLLW.  
BENCHMARK 4501 A NOS DISK ELEV. 12.15 FT. MLLW.

HORIZONTAL GPS CONTROL  
COAST GUARD D-BEACON



PRELIMINARY ISSUE  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY

NAD 83 CHANNEL ANGLE POINTS			
Δ PT	X	Y	
1	6070497.14	2029381.41	
2	6070532.34	2028732.31	
3	6070951.24	2020996.01	
4	6070270.24	2019491.41	
5	6067215.84	2018664.81	
6	6066677.34	2015527.11	
7	6066847.04	2015077.21	
8	6066598.34	2014551.71	
9	6065434.54	2013609.41	
10	6065101.54	2012395.71	
11	6065181.74	2011949.61	
12	6064761.54	2010998.31	
13	6064484.54	2010776.31	
14	6064278.74	2010735.31	
15	6064211.54	2011072.31	
16	6063974.74	2011444.51	
17	6064312.34	2012208.81	
18	6064715.84	2012501.51	
19	6065082.74	2013839.31	
20	6065866.34	2015167.71	
21	6066300.74	2015432.81	
22	6066969.44	2016845.51	
23	6069927.44	2019582.91	
24	6070573.54	2021010.41	
25	6070626.34	2021447.71	
26	6070366.54	2026244.71	
27	6069732.74	2028609.11	
28	6069564.44	2029236.91	

NAD 83 CENTERLINE ANGLE POINTS			
Δ PT	X	Y	
C1	6070030.84	2029309.11	
C2	6070516.34	2026252.81	
C3	6070776.14	2021455.81	
C4	6070762.44	2021003.21	
C5	6070098.84	2019537.11	
C6	6067092.64	2016755.11	
C7	6066541.74	2015591.31	
C8	6066573.94	2015255.01	
C9	6065258.64	2013724.31	
C10	6064908.74	2012448.61	
C11	6064278.74	2010735.31	

US Army Corps  
of Engineers  
San Francisco District  
333 Market Street  
San Francisco, CA 94105

Mark	Description	Date	Appr.

SUBMITTED:	TWV	DESIGNED BY:	PC	CHECKED BY:	EWC	DRAWN BY:	EWC
Hydro Survey Section		DATE:	6/18/2003	SHEET NO.	1 OF 4	DRAWING NO.	54 2 171
APPROVAL RECOMMENDED:		PREPARED UNDER THE DIRECTION OF					
Chief, Engineering Branch		MICHAEL MCCORMICK					
APPROVED:		LT. COLONEL, C.E., DISTRICT ENGINEER					
Chief, Engineering Technical & Services Div.							

CALIFORNIA

CONTRA COSTA COUNTY

REDWOOD CITY

PREDREDGE SURVEY

7-9 JUNE 2003

Sheet  
reference  
number

C1

MATCHLINE - SHEET 2